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Subject: Write 3dimensional array as bsq-file without using ENVI Methods

Posted by [Ina](#) on Fri, 14 Aug 2015 08:22:23 GMT

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Hey guys,

I have to replace all ENVI-Methods in my IDL-Code. Actually I am trying to write several 2- and 3-dimensional integer- and float-arrays as bsq-files without using ENVI-Methods such as "ENVI\_WRITE\_ENVI\_FILE". More precisely the file type should be "ENVI Classification", "ENVI Standard" or "ENVI Spectral Library", if it is possible. Is there a way to do this? Thanks in advance.

Actually my IDL Code (including the ENVI Method: ENVI\_WRITE\_ENVI\_FILE) is looking like this:

```
> mask_unclassified_urban = intarr(no_columnsX_org, no_linesY_org)
>
> file_type_standard = ENVI_FILE_TYPE('ENVI Standard')
>
> ENVI_WRITE_ENVI_FILE, mask_unclassified_urban, file_type = file_type_standard,
map_info=map_info_output, out_name=out_name_unclassified_mask_urban
```

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Subject: Re: Write 3dimensional array as bsq-file without using ENVI Methods

Posted by [Puneeth Shankar](#) on Fri, 14 Aug 2015 09:17:07 GMT

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I assume you solely have an IDL licence and trying to convert all envi functionalities to IDL alone. So I suggest you to take a look at WRITE\_TIFF in IDL. You are free to write it the way you want. Hope this is what you were trying to do

BEST,  
Puneeth

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Subject: Re: Write 3dimensional array as bsq-file without using ENVI Methods

Posted by [Ina](#) on Mon, 17 Aug 2015 07:52:43 GMT

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Hi thanks for your suggestion. However, I need bsq-files as output... is there no possibility for that? I have both licences, ENVI and IDL but it should run without opening ENVI, so that is applicable without ENVI and therefore everywhere... :/.

best regards,  
Ina

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Subject: Re: Write 3dimensional array as bsq-file without using ENVI Methods

Posted by [Yngvar Larsen](#) on Mon, 17 Aug 2015 08:41:17 GMT

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On Monday, 17 August 2015 09:52:46 UTC+2, jil...@googlemail.com wrote:

> Hi thanks for your suggestion. However, I need bsq-files as output... is there no possibility for that? I have both licences, ENVI and IDL but it should run without opening ENVI, so that is applicable without ENVI and therefore everywhere... :/.

> best regards,

> Ina

To write the binary (bsq) file itself is no problem. Just make sure that your array has the band dimension last (using TRANSPOSE if necessary), and write to disk:

```
A = fltarr(npixels, nlines, nbands)
openw, unit, 'myfile.bsq', /get_lun
writeu, unit, A
free_lun, unit
```

However, you must write code to dump the corresponding ENVI header file yourself. In simple cases this is rather easy, but a general solution is a lot of work.

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Yngvar

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